



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Confirmation No. 4568
Turid RISDAL et al. : Docket No. 2002_0434A
Serial No. 10/089,236 : Group Art Unit 1724
Filed March 28, 2002 : Examiner R. Spitzer

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MEMBRANE AND USE THEREOF

AMENDMENT

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

Assistant Commissioner for Patents,
Washington, D.C.

Sir:

In response to the Official Action dated January 3, 2003, please amend the present application
as follows:

IN THE SPECIFICATION:

Please amend the specification as follows:

Please replace the paragraph beginning at page 7, line 16, with the following rewritten
paragraph:

B₁
The inventors found that a certain class of multicomponent metallic oxides are particularly
suited as membrane materials in processes in which the membrane is subjected to a large potential
gradient, e.g. oxygen partial pressure difference of 6-7 orders of magnitude or more across the
membrane. These compositions overcome problems associated with kinetic decomposition.
Additionally, due to their low chemical expansion and high stability against carbon dioxide and water,
these materials are particularly suited as membranes for the production of syngas and for fossil energy
conversion with economical CO₂ abatement.